Highway Number (ON) 5D: 470A

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 12.447 mi

dge Name: F-16-	·MD	Inspection Date: 3/	6/2012	Sufficiency Rating: 98.0	Not Eligib
NBI Reporting ID:	F-16-MD	Hist Signif 37:	5	UW Inspection Date 93B	
Rgn/Sectn 2E/2M:	68	Posting status 41:	Α	SI Date 93C:	
rans Region 2T	02	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 0
County Code 3:	059	Main Mat/Desgn 43A/B:	6 2	Roadway Cost 95:	\$ 0
EFFERSON	Jood	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
Place Code 4:	00000	Main Spans Unit 45:	2	Year of Cost Estimate 97:	
non-city		Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Rte.(On/Under)5A:	4	Horiz Clr 47:	38.0 ft	Border Bridge Number 99:	
	1	Max Span 48:	101.6 ft	Defense Highway 100:	0
Signing Prefix 5B:	3	Str Length 49:	200.1 ft	Parallel Structure 101:	
evel of Service 5C:	1	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
Directional Suffix 5E:	0	Width Curb to Curb 51	38.0 ft	Temporary Structure 103) ·
eature Intersected 6:		Width Out to Out 52:	41.5 ft	Highway System 104:	1
IPLING PARKWAY		Deck Area:	8,299. sq. ft	Fed Lands Hiway 105:	0
acility Carried 7:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106	0000
H 470 ML WBND			H		1
llias Str No.8A:		Min Undrclr Ref 54A: Min Undrclr 54B:	18.4 ft	Deck Type 107:	<u></u>
				Wearing Surface 108A	6
rll Str No. 8P		Min Lat Clrnce Ref R 55A:		Membrane 108B:	2
-16-MC		Min Lat Undrolr R 55B:	11.0 ft	Deck Protection 108C:	1
ocation 9:		Min Lat Undrolr L 56:	6.0 ft	Truck ADT 109:	6 %
2.4 MI S OF I 70		Deck 58:	7	Trk Net 110:	1
lax Clr 10:	328.1 ft	Super 59:	8	Pier Protection 111:	#
aseHiway Net12:	1	Sub 60:	8	NBIS Length 112:	Υ
sinvRout 13A	000000470A	Channel/Protection 61:	N	Scour Critical 113:	N
ssubRout No13B:	00	Culvert 62:	N	Scour Watch 113M:	
atitude 16:	39d 33' 37"	Oprtng Rtg Method 63:	1 LF Load Facto	Future ADT 114:	39,397
ongitude 17:	105d 06' 37"	Operating Rating 64:	71.0	Year of Future ADT 115	2027
Range18A:	69 W	Inv Rtng Method 65:	1	CDOT Str Type 120A:	CPGC
ownship18B:	69	Inventory Rating 66:	35.1	CDOT Constr Type 120B:	31
Section18C:	3	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
etour Length 19:	0.6 mi	Str. Evaluation 67:	7	Inspection Trip 122AA	
oll Facility 20:	3	Deck Geometry 68:	6	Inspection Schedule ID:	EVN DEC H13
Sustodian 21:	1	Undrclr Vert/Hor 69:	7	Maintenance Patrol 123:	17
Owner 22:	1	Posting 70:	5	Expansion Dev/Type124	0
unctional Class 26:	12	Waterway Adequacy 71	N	Brdg Rail Type/Mod 125A/B	R 0
ear Built 27:	1986	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0 0
anes on 28A:	2	Type of Work 75A:		Str Rating Date 130:	2/3/1997
anes Under 28B:	7	Work Done By 75B:		Special Equip 133:	-1
DT 29:	25,750	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0
ear of ADT 30:		Insp Team Indicator 90B:	GREEN TEAM	Vert Clr S/W 135A/B/C	X 99.99 0
	2007	Inspector Name 90C:	ROSSARTB	Vertical Clr Date:	1/20/2010
Design Load 31:	6		24 months	Weight Limit Color: 139	
pr Rdwy Width 32:	38.0 ft	Frequency 91:	4 IIIUIIIIIS		0
Median 33:	1	FC Frequency 92A:		Str Billing Type:	U
Skew 34:	0.00 °	UW Frequency 92B:		Userkey 1 - System:	ONSYS
Structure Flared 35:	0	SI Frequency 92C:		Userkey 7-Update Indic	J
Sfty Rail 36a/b/c/d:	1 1 1 1	FC Inspection Date 93A:			

Inspector Name: ROSSARTB

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	8,303	100 %	8,303	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	1,188	100 %	1,188	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	21	100 %	21	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	83	100 %	83	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	41	100 %	41	0 %	0	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	50 %	1	50 %	1	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	50 %	1	50 %	1	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	400	88 %	350	13 %	50	0 %	0	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/4	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes			
26/4	Conc Deck/Coatd Bars	3 inches Asphalt. The longitudinal seams are starting to ravel; 20 feet in length on centerline near P2, and 10 feet along the Left shoulder stripe have been patched. See 2012 PHOTO.			
109/4	P/S Conc Open Girder	Colorado G54 girders. Good condition.			
210/4	R/Conc Pier Wall	Good condition.			
215/4	R/Conc Abutment	Shallow delam at the corners of girders 1C @ A1, 2C & 2D @ A3. Girders are embedded into the abutment.			
		A few hairline vertical cracks in both.			
234/4	R/Conc Cap	Good condition. Girders 2C bay B & 2D bay D, have light vertical crack with efflor. Girders are embedded.			
321/4	R/Conc Approach Slab	Asphalt cracked at both at ends, opening and breaking up at the joints, worse at A1 w/ potholes and major cracks has not been patched, while A3 was repaired. See 2010 & 2012PHOTOS.			
325/4	Slope Prot/Berms	Slope paving is settled 2 inches along the Abutment 1 breast wall, and settled 4 inches with 2 inches of separation along the A1Left Wingwall.			
		Settled 2.75 inches along the A1Right Wingwall.			
		Separated 1 inch along the A3 Left Wingwall, and settled up to 5 inches along the A3 Right Wingwall.			
		Typical horizontal cracks in both, all panels.			
326/1	Bridge Wingwalls	Wings have vertical and diagonal cracks.			
		#1 Left, and #3 Left have horizontal cracking at the cold joints.			
331/4	Conc Bridge Railing	Many light, to moderate vertical cracks in both Jersey barriers with efflor are typical.			
		Several shallow chips at joints, along the tops, and edges.			

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Description	Element Notes				
Superstr Cnc Coating	On girders and bridge rail. Many scrape on the rail.				
Substr Conc Coating	On abutments, wingwalls, pier wall, pier cap, and slope paving.				
	Peeling on the slope paving.				
Soffit Smart Flag	Transverse cracks with light efflor, throughout. See 2012 SKETCH.				
	Superstr Cnc Coating Substr Conc Coating				

Maintenance Activity Summary

MMS Acti	vity Description R	ecommended	Status	Target Year	Est Cost
**	Replace	12/5/2007	-1	2014	500

Seal the cracks at the approach slabs.

Bridge Notes

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Inspection Notes

Time: 10:00 Tem	p: 61 Degrees F.	Weather: Hazy/Wind
Scope:		
✓ NBI: ✓ Element:	Underwater:	Fracture Critical: Other: Type: Regular NBI
Team Leader Inspecti	on Check-off:	
☐ FCM's		□ Vertical Clearance
Posting Signs		Stream Bed Profile
Essential Repair Ve	erification	
Inspection Team:		
Inspection Date:	03/06/2012	
		Inspector: ROSSARTB
Inspection Date:	03/06/2012	Inspector: ROSSARTB